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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/679,898	10/06/2003	Ming Liang Shiao	077-03	3803
27569	7590 08/26/2005		EXAMINER	
PAUL AND PAUL 2000 MARKET STREET			KILIMAN, LESZEK B	
SUITE 2900			ART UNIT	PAPER NUMBER
PHILADEL	PHIA, PA 19103		1773	
			DATE MAILED: 08/26/200:	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Antique Commence	10/679,898	SHIAO ET AL.				
Office Action Summary	Examiner	Art Unit				
	leszek b kiliman	1773				
The MAILING DATE of this communicate Period for Reply	tion appears on the cover sheet v	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic of the period for reply specified above is less than thirty (30) decrease. If NO period for reply is specified above, the maximum statuto Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a ation. ays, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MO by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	on.			
Status						
1) Responsive to communication(s) filed o	on .					
· ·	☐ This action is non-final.					
3) Since this application is in condition for		ters, prosecution as to the merits i	s			
closed in accordance with the practice		•				
Disposition of Claims						
4) ⊠ Claim(s) 1-35 is/are pending in the apple 4a) Of the above claim(s) 33-35 is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-33 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	rithdrawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the E	xaminer.					
10) The drawing(s) filed on is/are: a)	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by	the Examiner. Note the attache	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for	cuments have been received. cuments have been received in A ne priority documents have beer Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	-			
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 02-13-04.	948) Paper No(Summary (PTO-413) s)/Mail Date informal Patent Application (PTO-152)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
- I. Claims 33-35, drawn to a process, classified in class 106, subclass 493.
- II. Claims 1-33, drawn to an article, classified in class 428, subclass 403.

The inventions are distinct, each from the other because of the following reasons:

Inventions Group I and Group II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the process as claimed can be used to make other and materially different product.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

During a telephone conversation with Mr. Sluzas on June 20, 2005 a provisional election was made with traverse to prosecute the invention of Group II, claim1-32. Affirmation of this election must be made by applicant in replying to this Office action. Claims 33-35 are

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withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1,4-8,11-12,17,20-23,26-28,31 are rejected under 35 U.S.C. 102(e) as being anticipated by Yanagimoto'038.

The Yanagimot'038 discloses colored infrared- reflecting roofing granules comprising base particles coated with a cured coating composition comprising a binder and infrared-reflecting pigment. See Abstract, column 1, lines 20-40, column 2 lines 1-22, lines 35-42, lines 54-67, column 4, lines 60-67, column 5, lines 1-31, lines 50-67, Example 2, claims.

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2-3,9-10,13-16, 18-19,24-25,29-30,32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanagimoto'038..

The applied Yanagimoto'038 references teaches a colored infrared-reflective roofing granules comprising base particles coated with a cured coating composition comprising a coating binder and at least one infrared-reflective pigment as in the above rejections. The Yanagimoto'038 does not specifically teach L value, infrared reflectance or second coating for particles. However, the prior art reference teaches that it is well known in the art that reflection and absorbtion of the particles should be optimized. See column 1, lines 20-40. It would have been obvious to one having ordinary skill in the art at the time of the invention to adjust L value and infrared reflectance of particles, since such would improve heat reflection properties of the roofing material. Also, it would be obvious to one having ordinary skill in the art to add additional coatings to particles, since such would magnify the effects of light and heat reflection of such particles.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to leszek b kiliman whose telephone number is 571-272-1509. The examiner can normally be reached on M-T, 6.30-5.00.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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